



SEQUENCE LISTING

<110> HAZEN, KEVIN C.
SINGLETON, DAVID R.
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WU, JEAN G.
GLEE, PATTI M.

<120> YEAST CELL WALL PEPTIDES AND ANTIBODIES THERETO

<130> 032905-010

<140> 09/913,850
<141> 2001-12-14

<150> PCT/US00/04228
<151> 2000-02-18

<150> 60/120,765
<151> 1999-02-19

<150> 60/120,764
<151> 1999-02-19

<160> 41

<170> PatentIn Ver. 3.3

<210> 1
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<220>
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<223> glutamate or glutamine

<220>
<221> MOD_RES
<222> (2)
<223> variable amino acid or not present

<220>
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<222> (3)
<223> variable amino acid

<220>
<221> MOD_RES
<222> (4)..(6)
<223> This region encompasses a tripeptide wherein at least one amino acid of the tripeptide is Val, Leu, Ile, Phe, Tyr, or Trp

<400> 1
Xaa Xaa Xaa Xaa Xaa Xaa
1 5

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peptide

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<220>
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peptide

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Ser Asp Arg Leu Glu Val Gly Thr Glu Asp Leu Arg
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peptide

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Asp Val Glu Val Gly Ala Glu Asp Ala Leu Phe Ser
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peptide

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Ile Glu Ala Arg Val Glu Ile Asp Trp Ser Leu Asp
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Gly Arg Asn Leu Glu Val Asp Arg Ala Leu Asp Thr
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Arg Ser Met Leu Glu Leu Asp Val Ile Leu Glu Gly
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Glu Gly Ile Gly Val Glu Val Glu Val Val Leu Glu
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Glu Ile Asp Leu Lys Leu Glu Pro Gly Thr Arg Val
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Glu Leu Asp Ala Ile Asp Arg Pro Gly Ile Val Val
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Val Arg Leu Glu Ile Asp Gln Ile Asp Arg Gly Pro
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Ser Phe Glu Val Asp Pro Ile Asp Glu Asn Ser Gly
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<400> 14

Gly Glu Thr Gln Cys Val Glu Ile Ala Ser Ile Asp
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Ile Gly Phe Val Glu Arg Asp Asp Ile Asp Ala Glu
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<400> 17

Pro Leu Leu Pro Glu Pro Leu Phe Ile Glu Leu Gly
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<210> 18

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peptide

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Cys Leu Asp Val Arg
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peptide

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peptide

<400> 27
Tyr Gln Pro Gln Tyr Gly Arg
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<210> 28
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peptide

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Ala Leu Asn Pro Ser His Gly Ile Asp Val Gly Lys
1 5 10

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<400> 29

Leu Val Gln Pro Ala Val Gln Asn Asp Ser Asp Pro Asn Arg
1 5 10

<210> 30

<211> 16

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<223> Description of Artificial Sequence: Synthetic peptide

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Ala Asn Ser Ala Leu Asp Gly Gln Gly Asn Leu Val Ile Thr Ala Arg
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<210> 31

<211> 15

<212> PRT

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<400> 31

Asp Leu Gln Ala Pro Asn Asp His Val Val Gly Pro Ile Ala Arg
1 5 10 15

<210> 32

<211> 16

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<400> 32

Gly Ala Ala Val Gln Val Trp Thr Cys Asn Gly Thr Gly Ala Gln Lys
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<211> 22

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<223> Description of Artificial Sequence: Synthetic peptide

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Phe Tyr Gln Asp Ala Arg
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<210> 34

<211> 5

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 34

Glu Pro Leu Tyr Ile
1 5

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<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 35

Glu Pro Leu Tyr Val
1 5

<210> 36

<211> 5

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<223> Description of Artificial Sequence: Synthetic peptide

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Glu Pro Leu Phe Ile
1 5

<210> 37

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peptide

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1 5

<210> 38
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<220>
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peptide

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<223> Glu, Pro, or Lys

<220>
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<222> (4)
<223> Phe or Tyr

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<222> (5)
<223> Ile or Val

<220>
<221> MOD_RES
<222> (6)
<223> Ser or Thr

<400> 38
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<210> 39
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DNA sequence coding 6C5 antigen

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tacaacttaa ctttaactaa aaaaaaaaaac atg tca atc gat aaa tca aga atg 174
                               Met Ser Ile Asp Lys Ser Arg Met
                               1                               5

gtc acc aga tta ggt aaa tct ggt ttg aag gtc aac act gtt gct gtc 222
Val Thr Arg Leu Gly Lys Ser Gly Leu Lys Val Asn Thr Val Ala Val
      10                               15                               20

ggg act atg aga ttg gga tcc agt tgg aga ggt ttt aat ggt gac atc 270
Gly Thr Met Arg Leu Gly Ser Ser Trp Arg Gly Phe Asn Gly Asp Ile
      25                               30                               35                               40

gac gag tgt ttg aaa att ttg aaa ttt tgt tat gac aac ggg ttc cgt 318
Asp Glu Cys Leu Lys Ile Leu Lys Phe Cys Tyr Asp Asn Gly Phe Arg
      45                               50                               55

act ttc gat act gct gat act tac tca aat ggt aaa tct gaa gag ttg 366
Thr Phe Asp Thr Ala Asp Thr Tyr Ser Asn Gly Lys Ser Glu Glu Leu
      60                               65                               70

ttg ggt tta ttc atc aag aaa tac aat att cca cgt gaa cga att gtc 414
Leu Gly Leu Phe Ile Lys Lys Tyr Asn Ile Pro Arg Glu Arg Ile Val
      75                               80                               85

att tta acc aaa tgc tac ttc tca gtc aaa gac gac gca gaa gac agt 462
Ile Leu Thr Lys Cys Tyr Phe Ser Val Lys Asp Asp Ala Glu Asp Ser
      90                               95                               100

tca ctt gaa att gat cca att gac tat atg aac ggt aaa gga ttg agc 510
Ser Leu Glu Ile Asp Pro Ile Asp Tyr Met Asn Gly Lys Gly Leu Ser
     105                               110                               115                               120

aga aag cat atc tta gcc gca gct gaa gct tcc gtt aaa cgt ttg gga 558
Arg Lys His Ile Leu Ala Ala Ala Glu Ala Ser Val Lys Arg Leu Gly
     125                               130                               135

aca tat att gat gtg ttg caa att cat cgt tta gac cat gaa gtc aca 606
Thr Tyr Ile Asp Val Leu Gln Ile His Arg Leu Asp His Glu Val Thr
     140                               145                               150

tat gaa gag gtt atg cgt tct tta aat gat gtt gtt gaa caa gga ttg 654
Tyr Glu Glu Val Met Arg Ser Leu Asn Asp Val Val Glu Gln Gly Leu
     155                               160                               165

gca aga tac att ggt gcc tca tct atg aaa aca tgg gaa ttt gtt gag 702
Ala Arg Tyr Ile Gly Ala Ser Ser Met Lys Thr Trp Glu Phe Val Glu
     170                               175                               180

ttg caa aat gtt gct aaa gca aat ggt tgg cac caa ttc atc tcc atg 750
Leu Gln Asn Val Ala Lys Ala Asn Gly Trp His Gln Phe Ile Ser Met
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Gln Ser His Tyr Ser Leu Leu Tyr Arg Glu Asp Glu Arg Glu Leu Asn
205 210 215

gac tat tgt aag aag aat ggt att gga tta atc cct tgg tct cca aac 846
Asp Tyr Cys Lys Lys Asn Gly Ile Gly Leu Ile Pro Trp Ser Pro Asn
220 225 230

ggt ggt ggt gtt ttg tgt cgt cca ttc gac tct gaa aaa act aag cag 894
Gly Gly Gly Val Leu Cys Arg Pro Phe Asp Ser Glu Lys Thr Lys Gln
235 240 245

ttc tta gac aac aag caa tgg tca agt tta ttt gga tta gaa aat gtc 942
Phe Leu Asp Asn Lys Gln Trp Ser Ser Leu Phe Gly Leu Glu Asn Val
250 255 260

aga gac gca gat aag att atc gtc gat aga gtt gaa gag ttg agt gtt 990
Arg Asp Ala Asp Lys Ile Ile Val Asp Arg Val Glu Glu Leu Ser Val
265 270 275

aaa tac aat gca tct atg atg caa gtt tca ttg gca tgg tgt att gct 1038
Lys Tyr Asn Ala Ser Met Met Gln Val Ser Leu Ala Trp Cys Ile Ala
285 290 295

aaa ggt gtg att cca att gcc ggt gtc tcc aaa ttt gag caa gct gaa 1086
Lys Gly Val Ile Pro Ile Ala Gly Val Ser Lys Phe Glu Gln Ala Glu
300 305 310

gaa ttg gtt ggt att ttc aaa gtc aac tta act gaa gat gat atc aaa 1134
Glu Leu Val Gly Ile Phe Lys Val Asn Leu Thr Glu Asp Asp Ile Lys
315 320 325

tat ctt gaa gag cca tat cac gcc aaa gac ttg gca aga gtt gct gct 1182
Tyr Leu Glu Glu Pro Tyr His Ala Lys Asp Leu Ala Arg Val Ala Ala
330 335 340

taagtttggt atgtagttta gctttgctaa tcgtttatct ttattagggtc tagatatgaa 1242

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<212> PRT

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<223> Description of Artificial Sequence: Synthetic
amino acid sequence of 6C5 antigen

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Leu Lys Val Asn Thr Val Ala Val Gly Thr Met Arg Leu Gly Ser Ser
20          25          30

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Trp Arg Gly Phe Asn Gly Asp Ile Asp Glu Cys Leu Lys Ile Leu Lys
 35 40 45
 Phe Cys Tyr Asp Asn Gly Phe Arg Thr Phe Asp Thr Ala Asp Thr Tyr
 50 55 60
 Ser Asn Gly Lys Ser Glu Glu Leu Leu Gly Leu Phe Ile Lys Lys Tyr
 65 70 75 80
 Asn Ile Pro Arg Glu Arg Ile Val Ile Leu Thr Lys Cys Tyr Phe Ser
 85 90 95
 Val Lys Asp Asp Ala Glu Asp Ser Ser Leu Glu Ile Asp Pro Ile Asp
 100 105 110
 Tyr Met Asn Gly Lys Gly Leu Ser Arg Lys His Ile Leu Ala Ala Ala
 115 120 125
 Glu Ala Ser Val Lys Arg Leu Gly Thr Tyr Ile Asp Val Leu Gln Ile
 130 135 140
 His Arg Leu Asp His Glu Val Thr Tyr Glu Glu Val Met Arg Ser Leu
 145 150 155 160
 Asn Asp Val Val Glu Gln Gly Leu Ala Arg Tyr Ile Gly Ala Ser Ser
 165 170 175
 Met Lys Thr Trp Glu Phe Val Glu Leu Gln Asn Val Ala Lys Ala Asn
 180 185 190
 Gly Trp His Gln Phe Ile Ser Met Gln Ser His Tyr Ser Leu Leu Tyr
 195 200 205
 Arg Glu Asp Glu Arg Glu Leu Asn Asp Tyr Cys Lys Lys Asn Gly Ile
 210 215 220
 Gly Leu Ile Pro Trp Ser Pro Asn Gly Gly Gly Val Leu Cys Arg Pro
 225 230 235 240
 Phe Asp Ser Glu Lys Thr Lys Gln Phe Leu Asp Asn Lys Gln Trp Ser
 245 250 255
 Ser Leu Phe Gly Leu Glu Asn Val Arg Asp Ala Asp Lys Ile Ile Val
 260 265 270
 Asp Arg Val Glu Glu Leu Ser Val Lys Tyr Asn Ala Ser Met Met Gln
 275 280 285
 Val Ser Leu Ala Trp Cys Ile Ala Lys Gly Val Ile Pro Ile Ala Gly
 290 295 300
 Val Ser Lys Phe Glu Gln Ala Glu Glu Leu Val Gly Ile Phe Lys Val
 305 310 315 320
 Asn Leu Thr Glu Asp Asp Ile Lys Tyr Leu Glu Glu Pro Tyr His Ala
 325 330 335

Lys Asp Leu Ala Arg Val Ala Ala
340

<210> 41

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<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

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Glu Ile Asp Pro Ile Asp
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